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SELECTED REFERENCES ON WASTE STABILIZATION PONDS

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Cincinnati, Ohio

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SELECTED REFERENCES ON WASTE STABILIZATION PONDS*

William Marcus Ingram, W. W. Towne, and
William Bliss Horning II**

The references cited here are pertinent in their relationship to the successful development of functional waste stabilization ponds or lagoons which treat domestic sewage in the United States. Readers of this bibliography should turn to additional references in the publications cited here for further information; obviously it is not possible to include all papers which can be related to the treatment of decomposable organic wastes, as domestic sewage, in a bibliography of this nature.

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* To be associated with paper, "Some Observations on the Growth, Application, and Operation of Raw Sewage Stabilization Ponds," presented August 2, 1960, Kansas City, Missouri, at Symposium on Waste Stabilization Lagoons.

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Allen, M.B.

1955. General Features of Algal Growth in Sewage Oxidation Ponds. Publ. No. 13, Calif. State Water Pollution Control Board, pp. 1-47.

Allum, M.O.

1955. Lagoon Purification Performance in South Dakota. American City, Vol. 70, No. 3, pp. 128-129.

Anderegg, J.A., Walters, C.F., Hilliard, D., and Meyers, H.F.

1960. "Eskimo" Algae Make Lagoons Work at the Arctic Circle. Wastes Engineering, Vol. 31. No. 6, pp. 324-326.

Anon.

1946. Sewage Treatment at Military Installations. Rept. Sub-committee on Sanitary Engineering, National Research Council, Div. Medical Sciences, Washington, D.C., Chapter 10 - Oxidation Ponds, pp. 1023-1026.

Anon.

1957. Sewage Stabilization Ponds in the Dakotas. Vols. I-II (Joint Rept., Depts. of Health of North Dakota, South Dakota and The U. S. Public Health Service) Printed: Robt. A. Taft Sanitary Engineering Center, Cincinnati, Ohio.

Anon.

1960. Waste Stabilization Lagoons: Design, Construction, and Operation Practices Among Missouri Basin States. (Reproduced by Dept. of Health, Education, and Welfare, U.S. Public Health Service, Region VI, Water Supply and Pollution Control Activities, 2200 Federal Office Bldg., 911 Walnut Street, Kansas City 6, Mo.) Committee Report Approved by the Missouri Basin Engineering Health Council on January 1, 1960, pp. 1-12.

Bartsch, A.F. and Allum, M.O.

1957. Biological Factors in Treatment of Raw Sewage in Artificial Ponds.
Limnology and Oceanography,
Vol. 2, No. 2, pp. 77-84.

Beadle, L.D. and Harmston, F.C.

1958. Mosquitoes in Sewage Stabilization Ponds in the Dakotas.
Mosquito News,
Vol. 18, No. 4, pp. 293-296.

Caldwell, D.H.

1946. Sewage Oxidation Ponds - Performance, Operation, and Design.
Sewage Works Journal,
Vol. 18, No. 3, pp. 433-458.

Davis, W.H.

1955. Sewage Lagoons in the Dakotas.
Off. Bull. N. D. Water and Sewage Wks. Conf.,
Vol. 23, pp. 5-6.

Ehlers, V.M.

1954. Oxidation Ponds - Their Application and Potentials.
Off. Bull. N. D. Water and Sewage Wks. Conf.,
Vol. 22, pp. 3-14.

Ellison, R.P. and Smith, R.L.

1954. Evaluating the Use of Sewage Lagoons.
Public Works,
Vol. 85, No. 3, pp. 89 and 142.

Fitzgerald, G.P. and Rohlich, G.A.

1958. An Evaluation of Stabilization Pond Literature.
Sewage and Industrial Wastes,
Vol. 30, No. 10, pp. 1213-1224.

Gidley, H.K.

1956. Treating Septic Tank Effluent by an Oxidation Pond.
Public Works,
Vol. 87, No. 1, pp. 81-82.

Gloyna, E.F. and Hermann, E. R.

1956. Some Design Considerations for Oxidation Ponds.
Proc. American Society of Civil Engineers,
Vol. 82, Paper 1047.

Gloyna, E.F. and Hermann, E.R.

1957. Discussion: (Algae in Waste Treatment by Oswald, Gotaas, Golueke and Kellen).
Sewage and Industrial Wastes,
Vol. 29, No. 4, pp. 455-457.

Gotaas, H.B., Oswald, W.J. and Ludwig, H.F.

1954. Photosynthetic Reclamation of Organic Wastes.
Scientific Monthly,
Vol. 79, No. 12, pp. 368-378.

Gotaas, H.B. Oswald, W.J. and Golueke, C.G.

1954. Algal-Bacterial Symbiosis in Sewage Oxidation Ponds - 5th Progress Report.
Institute of Engineering Research, Univ. of Calif.,
Bull. Ser. 44, No. 5, pp. 1-28.

Hermann, E.R. and Gloyna, E.F.

1958. Waste Stabilization Ponds - I Experimental Investigations.
Sewage and Industrial Wastes,
Vol. 30, No. 4, pp. 511-538.

Hermann, E.R. and Gloyna, E.F.

1958. Waste Stabilization Ponds - II Field Practices.
Sewage and Industrial Wastes,
Vol. 30, No. 5, pp. 646-651.

Hermann, E.R. and Gloyna, E.F.

1958. Waste Stabilization Ponds - III Formulation of Design Equations.
Sewage and Industrial Wastes,
Vol. 30, No. 8, pp. 963-975.

Hopkins, G.J.

1956. Raw Sewage Lagoons.
Water and Sewage Works,
Vol. 103, No. 8, pp. 566-570.

Howells, D.H. and Dubois, D.P.

1959. The Design and Cost of Stabilization Ponds in the Midwest.
Sewage and Industrial Wastes,
Vol. 31, No. 7, pp. 811-818.

Kabler, P.W.

1959. Removal of Pathogenic Microorganisms by Sewage Treatment Processes.
Sewage and Industrial Wastes,
Vol. 31, No. 12, pp. 1373-1382.

Ludwig, H.F. and Oswald, W.J., et al.

1951. Algae Symbiosis in Oxidation Ponds - I. Growth Characteristics of Euglena gracilis Cultured in Sewage.
Sewage and Industrial Wastes,
Vol. 23, No. 11, pp. 1337-1355.

Ludwig, H.F. and Oswald, W.J.

1952. Role of Algae in Sewage Oxidation Ponds.
(Symposium on the Role of Ecology in Water Pollution Control),
Scientific Monthly,
Vol. 74, No. 1, pp. 3-5.

Merz, R.C., Merrell, J.C. and Stone, R.

1957. Investigation of Primary Lagoon Treatment at Mojave, Calif.
Sewage and Industrial Wastes,
Vol. 29, No. 2, pp. 115-123.

Neel, J.K.

1955. Biological Aspects of Three North Dakota Sewage Lagoons. Off. Bull. N. D. Water and Sewage Wks. Conf., Vol. 23, pp. 13-15; 22.

Neel, J.K. and Hopkins, G.J.

1956. Experimental Lagooning of Raw Sewage. Sewage and Industrial Wastes, Vol. 28, No. 11, pp. 1326-1356.

O'Connor, D.J. and Eckenfelder, W.W., Jr.

1960. Treatment of Organic Wastes in Aerated Lagoons. Journal Water Pollution Control Federation, Vol. 32, No. 4, pp. 365-382.

Oswald, W.J., Gotaas, H.B.et al.

1953. Algae Symbiosis in Oxidation Ponds - II Growth Characteristics of Cholorella pyrenoidosa Cultured in Sewage. Sewage and Industrial Wastes, Vol. 25, No. 1, pp. 26-37.

Oswald, W.J., Gotaas, H.B., Ludwig, H.F. and Lynch, V.

1953. Algae Symbiosis in Oxidation Ponds - III Photosynthetic Oxygenation. Sewage and Industrial Wastes, Vol. 25, No. 6, pp. 692-705.

Oswald, W.J. and Gotaas, H.B.

1955. Photosynthesis in Sewage Treatment. Proc. Amer. Soc. Civil Engr., Vol. 81, Separate No. 686, pp. 1-27.

Oswald, W.J., Gotaas, H.B., Golueke, C.G. and Kellen, W.R.

1957. Algae in Waste Treatment. Sewage and Industrial Wastes, Vol. 29, No. 4, pp. 437-455.

Parker, C.D., Jones, H.L. and Taylor, W.S.

1950. Purification of Sewage in Lagoons.
Sewage and Industrial Wastes,
Vol. 22, No. 6, pp. 760-775.

Parker, C.D., Jones, H.L. and Greene, N.C.

1959. Performance of Large Sewage Lagoons at Melbourne Australia.
Sewage and Industrial Wastes,
Vol. 31, No. 2, pp. 133-152.

Pearse, L., et al.

1948. Oxidation Ponds.
Report of the Committee on Sewage Disposal Engineering
Section, Amer. Pub. Health Assoc.,
Sewage Works Journal,
Vol. 20, No. 6, pp. 1021-1031.

Peterson, N.L.

1955. Sewage Treatment by Lagooning.
Off. Bull. N.D. Water and Sewage Wks. Conf.,
Vol. 23, pp. 21-22.

Sampson, E.O.

1955. A Double Duty Oxidation Pond.
Sewage and Industrial Wastes,
Vol. 27, No. 12, pp. 1410-1415.

Silva, P.C. and Papenfuss, G.F.

1953. A Systematic Study of Sewage Oxidation Ponds.
Calif. State Water Pollution Control Board,
Publ. No. 7, pp. 1-35.

Smallhorst, D.F., Walton, W.N. and Meyers, J.

1953. Design and Operation of Oxidation Ponds.
Public Works,
Vol. 84, No. 12, pp. 89-90; 111-114.

Smallhorst, D.F., Walton, B.N. and Meyers, J.

1954. Oxidation Ponds.
Texas Water and Sewage Wks. Assoc., Manual for Sewage Plant Operators, (2nd Ed.),
Chapter 13.

Steel, E.W. and Gloyna, E.F.

1955. Concentration of Radioactivity in Oxidation Ponds.
Sewage and Industrial Wastes,
Vol. 27, No. 8, pp. 941-956.

Towne, W.W.

1957. Sewage Stabilization Ponds for Suburban Housing Developments.
Journal National Home Builders Assoc.,
August, pp. 85-88.

Towne, W.W. and Davis, W.H.

1957. Sewage Treatment by Raw Sewage Stabilization Ponds.
Journal Sanitary Engineering Division,
Proc. Amer. Soc. Civil Engr.,
Paper 1337, SA-4: 1337, pp. 1-17.

Towne, W.W., Bartsch, A.F. and Davis, W.H.

1957. Raw Sewage Stabilization Ponds in the Dakotas.
Sewage and Industrial Wastes,
Vol. 29, No. 4, pp. 377-396.

Towne, W.W. and Pahren, H.R.

1959. Use of Stabilization Ponds in Treating Sewage and Industrial Wastes.
Proc. 8th Southern Municipal & Ind. Wastes Conf.,
Chapel Hill, N. C., April 1959.

Tsivoglou, E.C., Pecsox, D.A. and Valentine, R.F.

1956. Field Use of Radiotracer in a Sewage Oxidation Pond Flow Study.
Sewage and Industrial Wastes,
Vol. 28, No. 10, pp. 1211-1218.

Van Heuvelen, W.

1952. Sewage Disposal by the Lagoon Method.
Off. Bull. N. D. Water and Sewage Wks. Conf.,
Vol. 22, No. 4, pp. 24-26.

Van Heuvelen, W. and Svore, J.H.

1954. Sewage Lagoons in North Dakota.
Sewage and Industrial Wastes,
Vol. 26, No. 6, pp. 771-776.

Wennstrom, M.

1949. Biological Purification of Settled Sewage in Shallow Ponds.
Proc. United Nations Scientific Conf. on Conservation
and Utilization of Resources, Aug. 17-Sept. 6, 1949,
Lake Success, N.Y., pp. 124-127.

Wilson, J.N., McDermott, J.H. and Livingston, A., III

1960. Performance of a Sewage Stabilization Pond in a
Maratime Climate: 1957-1958.
Proc. 15th Purdue Ind. Wastes Conf.,
May 1960, (In Press).